

DEVELOP A PYTHON SCRIPT

| | |
|---------------|--|
| Team ID | PNT2022TMID16091 |
| Project Name | Project- <u>Smart Waste management system for metropolitan city</u> |
| Maximum Marks | 4 Marks |

Enter your API key here

```
api_key = "Your_API_Key"
```

base_url variable to store url

```
base_url = "http://api.openweathermap.org/data/2.5/weather?"
```

Give city name

```
city_name = input("Enter city name : ")
```

complete_url variable to store

complete url address

```
complete_url = base_url + "appid=" + api_key + "&q=" + city_name
```

get method of requests module

return response object

```
response = requests.get(complete_url)
```

json method of response object

convert json format data into

python format data

```
x = response.json()
```

```
# Now x contains list of nested dictionaries  
# Check the value of "cod" key is equal to  
# "404", means city is found otherwise,  
# city is not found  
if x["cod"] != "404":
```

```
    # store the value of "main"  
    # key in variable y  
    y = x["main"]
```

```
    # store the value corresponding  
    # to the "temp" key of y  
    current_temperature = y["temp"]
```

```
    # store the value corresponding  
    # to the "pressure" key of y  
    current_pressure = y["pressure"]
```

```
    # store the value corresponding  
    # to the "humidity" key of y  
    current_humidity = y["humidity"]
```

```
    # store the value of "weather"  
    # key in variable z  
    z = x["weather"]
```

```
    # store the value corresponding  
    # to the "description" key at  
    # the 0th index of z  
    weather_description = z[0]["description"]
```

```
# print following values

print(" Temperature (in kelvin unit) = " +
      str(current_temperature) +
      "\n atmospheric pressure (in hPa unit) = " +
      str(current_pressure) +
      "\n humidity (in percentage) = " +
      str(current_humidity) +
      "\n description = " +
      str(weather_description))

else:
    print(" City Not Found ")
```

OUTPUT:

Enter city name : Delhi

Temperature (in kelvin unit) = 312.15

atmospheric pressure (in hPa unit) = 996

humidity (in percentage) = 40

description = haze